

# Micsig

## PRODUCT CATALOG



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## Smart Digital Oscilloscope

### STO1000E Series



- Powerful Android system for faster response and smoother operation
- Real-time WiFi data transmission and HDMI display
- User-friendly soft keyboard makes convenient input
- 8-inch touch screen combines high-quality knobs, easy operation, powerful multifunction
- 7500mAh large lithium-ion battery, up to 5-hour continuous operation
- Support APP (iOS & Android) and Windows PC software remote control
- Built-in 8G storage capacity, support video recording
- Level 256 grayscale and color temperature display

Dimension: 280\*180\*50mm

Weight: 4CH Oscilloscope 1425g Battery 320g

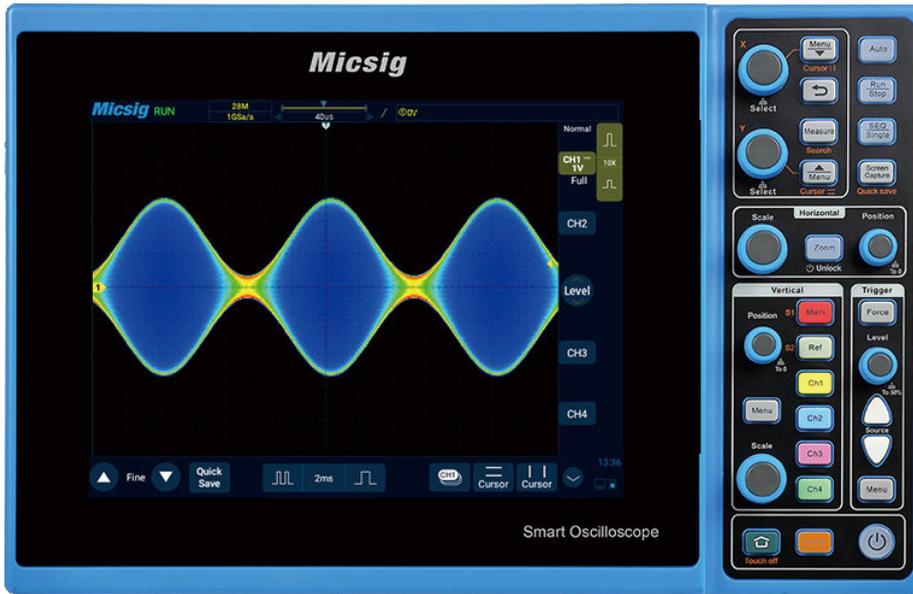
Model	STO1102E	STO1104E	STO1152E
Analog channel	2	4	2
Bandwidth	100MHz	100MHz	150MHz
Rise time	≤ 3.5ns	≤ 3.5ns	≤ 2.3ns
Ram	2G		
Max capture rate	130,000wfms		
Sample rate	1GSa/S (single channel)		
Memory depth	70Mpts (single channel)		
Bandwidth limitation	20MHz, High pass, Low pass		
I/O Port	Wi-Fi, LAN, HDMI, USB Host, USB Device, DC Power, Aux out		
APP	Support Android / IOS		
Built-in storage capacity	8G		
Trigger types	Edge, Pulse Width, Logic, Video, Runt, Timeout, Nth Edge, Slope		
Display	8" Industry TFT LCD touchable capacitive screen, resolution: 800*600 pixels, 14*10 grids		
Automatic Measurements	Period, Frequency, Rise Time, Fall Time, Delay, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.		
Math function	+, -, *, /, FFT		
Vertical resolution	8 bits		
DC gain accuracy	≤ 2%		
Vertical scale	1mV/div~10V/div		
Serial bus trigger and decode	UART, CAN, LIN, SPI, I2C, (1553B, 429 are optional)		
Battery	7.4V 7500mAh, rechargeable lithium battery		



Battery

## Smart Digital Oscilloscope

### STO1000C Series



- Support APP (iOS and Android ) and PC software to remote control oscilloscope
- Support Wi-Fi data real-time transmission and HDMI high-definition display
- Support video recording and built-in 8G storage capacity
- Support 256-level intensity grading and color temperature display
- Unique file management system, easy to save and transfer waveform data
- 8 inches full touch capacitive screen and high quality button and knobs make the operation more simple and smart

Dimension: 280\*180\*50mm

Weight: 4CH Oscilloscope 1425g Battery 320g

Model	STO1102C	STO1104C	STO1152C
Analog channel	2	4	2
Bandwidth	100MHz	100MHz	150MHz
Rise time	≤3.5ns	≤3.5ns	≤2.3ns
Sample rate	1GSa/S(single channel)		
Max capture rate	80,000wfm/s		
Memory depth	28Mpts (single channel)		
Bandwidth limitation	20MHz,High pass,Low pass		
I/O Port	Wi-Fi,LAN,HDMI,USB Host , USB Device,DC Power,Aux out		
APP	Support Android / IOS		
Built-in storage capacity	8G		
Trigger types	Edge, Pulse Width, Logic, Video, Runt, Timeout, Nth Edge, Slope		
Display	8" Industry TFT LCD touchable capacitive screen, resolution: 800*600 pixels, 14*10 grids		
Automatic Measurements	Period, Frequency, Rise Time, Fall Time, Delay, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.		
Math function	+, -, *, /, FFT		
Vertical resolution	8 bits		
DC gain accuracy	≤2%		
Vertical scale	1mV/div~10V/div		
Serial bus trigger and decode (Optional)	UART,CAN,LIN,SPI,I2C,1553B,429		
Battery (Optional)	7.4V 7500mAh, rechargeable lithium battery		

STO1000C plus version include battery,screen mask,carry strap.



## Digital Tablet Oscilloscope tBook mini

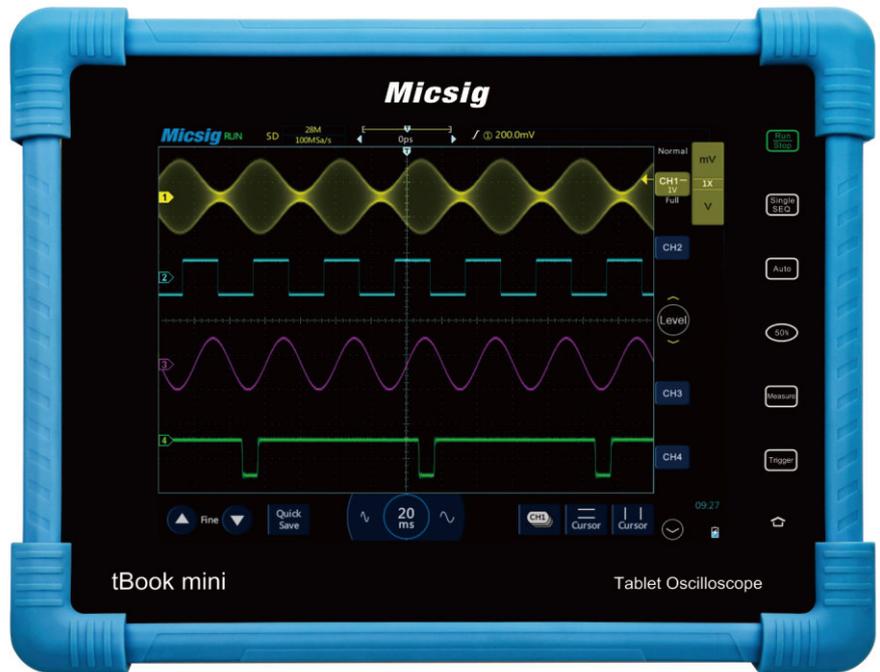
### TO1000 Series

- Innovative software design and high quality hardware
- Built in 8000mAH lithium battery, up to 5 hours continuous working time
- 8" TFT LCD & 800\*600 pixels high resolution Multi-touch capacitive screen
- Support 5 kinds of bus trigger and decoding(optional): UART CAN SPI I2C LIN
- 8 types of trigger function: Edge, Pulse, Logic, Timeout, Runt, Slope, Nth Edge, and Video
- Built-in 8G storage capacity, waveforms and screenshots can be viewed and edited in scope, support Video record and file management.
- Various I/O port: LAN, Wi-Fi, USB Host, USB Device, HDMI, Aux out
- Support APP (iOS and Android )and PC software remote control

#### APPs(iOS and Android)



#### HDMI



Dimension: 250\*200\*55mm

Weight: 4CH Oscilloscope 1125g Battery 263g

Model	TO1102	TO1104	TO1152
<b>Bandwidth</b>	100MHz	100MHz	150MHz
<b>Rise time</b>	≤3.5ns	≤3.5ns	≤2.3ns
<b>Input channel</b>	2	4	2
<b>Sample rate</b>	1GSa/S (single channel)		
<b>Memory depth</b>	28Mpts (single channel)		
<b>Max capture rate</b>	130,000wfms		
<b>Bandwidth Limit</b>	20MHz, High pass, Low pass		
<b>Interface</b>	Wi-Fi, LAN, HDMI(Optional), USB Host, USB Device, DC Power Aux out		
<b>Screen</b>	8 inches TFT LCD 800*600 pixels display resolution, 14*10 display range		
<b>Battery(optional)</b>	7.4V 8000 mAH, rechargeable lithium battery		
<b>PC Software</b>	PC software and APP (support iOS and Android) via Wi-Fi or USB		
<b>Serial bus trigger and decode (Optional)</b>	UART, CAN, LIN, SPI, I2C, 1553B, 429		
<b>Cursor types</b>	Horizontal, Vertical, Cross		
<b>Automatic Measurements</b>	Period, Frequency, Rise Time, Fall Time, Delay, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width, Burst Width, Positive Overshoot, Negative Overshoot, Phase, Peak to Peak, Amplitude, High, Low, Max, Min, Mean, Cycle Mean, RMS, Cycle RMS.		
<b>Vertical resolution</b>	8 bits		
<b>DC gain accuracy</b>	≤2%		
<b>Vertical scale</b>	1mV/div~10V/div		

TO1000C plus version include battery, screen mask, carry strap.

## Automotive Tablet Oscilloscope

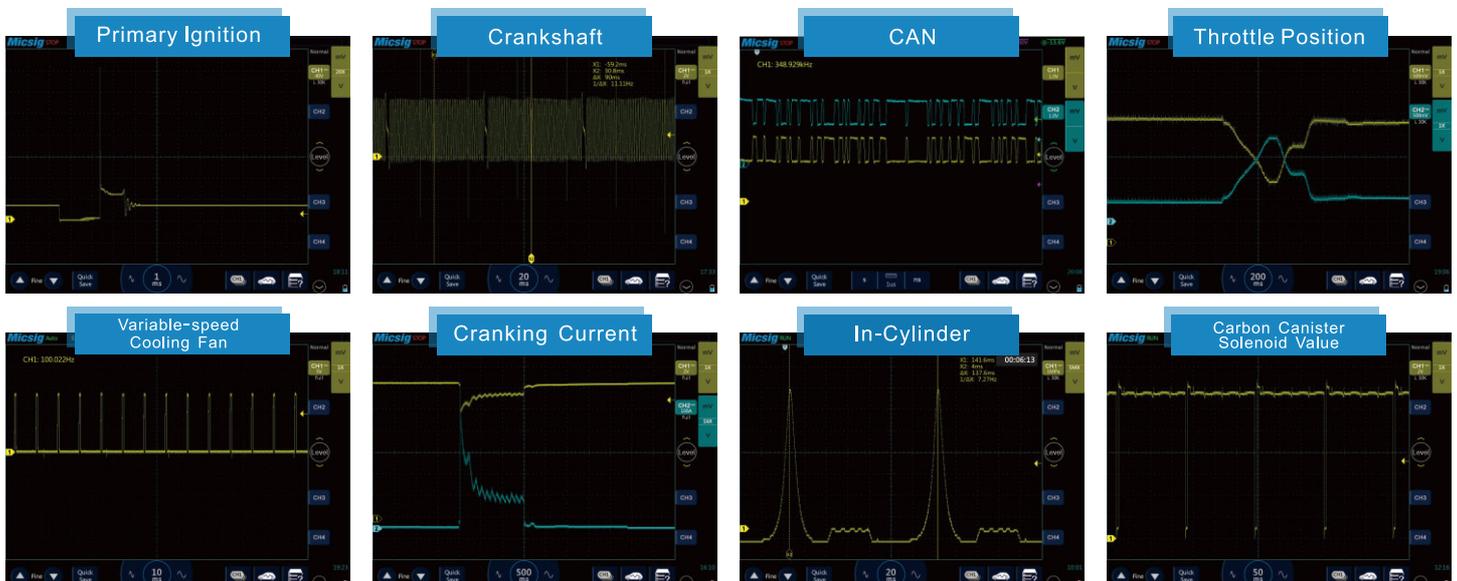
### ATO1000 Series

- Various automotive diagnostic function: Ignition, sensor, actuators, networks, combination test and pressure test.
- Easy to use, convenient to operate in field, when battery included.
- Support APP to operate oscilloscope remotely.
- Support Wi-Fi to transfer waveform data.
- Internal 8G memory to save big waveform data.
- 8 inches full touch capacitive screen, 800\*600 pixels.



Dimension: 250\*200\*55mm

Model	ATO1102	ATO1104
Bandwidth	100MHz	100MHz
Channel	2	4
Real time sample rate	1G Sa/S (single channel)	1G Sa/S (single channel)
Memory depth	28Mpts (single channel)	28Mpts (single channel)
Support test	Charging circuit, starter circuit, sensor, actuator, ignition test, communication test (including CAN, LIN, Flexray, K, etc.), pressure test (cylinder pressure, intake and exhaust pressure, fuel pressure, etc.)	
Bandwidth limitation	Full bandwidth, low pass	
I/O port	Wi-Fi, LAN, HDMI, USB Host, USB Device, GND, DC Power	
Accessories	Lithium battery, power adapter, power cord, 2*BNC banana lines, 2*alligator clips, 2*Flexible needle, 2*P130A probes	Lithium battery, power adapter, power cord, 4*BNC banana lines, 4*alligator clips, 4*Flexible needle, 4*P130A probes

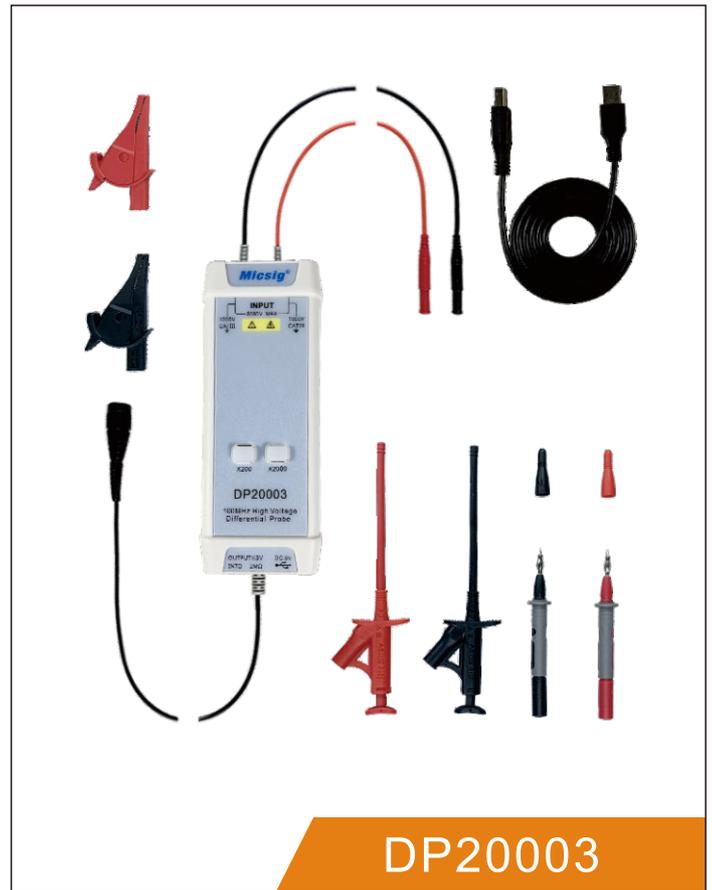


## High Voltage Differential Probes

### DP Series



DP10013



DP20003

Model	DP10007	DP10013	DP20003
<b>Bandwidth</b>	100MHz	100MHz	100MHz
<b>Attenuation Rate</b>	10X 100X	50X 500X	200X 2000X
<b>Rise Time</b>	3.5ns	3.5ns	3.5ns
<b>Accuracy</b>	±2%	±2%	±2%
<b>Input Impedance</b>	8MΩ/1.25pF(differential) 4Ω/2.5pF(single-ended to ground)	10MΩ/1pF(differential) 5MΩ/2pF(single-ended to ground)	50MΩ/1.25pF(differential) 25MΩ/2.5pF(single-ended to ground)
<b>Maximum Differential Test Voltage(DC + AC PK)</b>	70V(10X) 700V(100X)	130V(50X) 1300V(500X)	560V(200X) 5600V(2000X)
<b>Output Voltage</b>	≤7V	≤3V	≤3V
<b>Overrange Alarm</b>	Button light flashes	Button light flashes	Button light flashes
<b>Power Supply</b>	DC 5V, USB Supply	DC 5V, USB Supply	DC 5V, USB Supply
<b>Power</b>	1.25W	0.85W	0.85W
<b>Dimension</b>	14.5cm*6cm*2.7cm	14.5cm*6cm*2.7cm	14.5cm*6cm*2.7cm
<b>Input cable length</b>	Approx 45cm	Approx 45cm	Approx 45cm
<b>Output cable length</b>	Approx 90cm	Approx 90cm	Approx 90cm

## AC/DC Current Probe

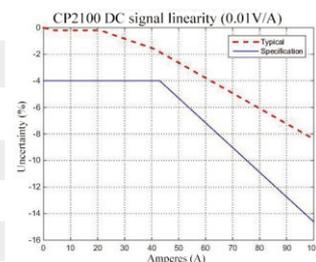
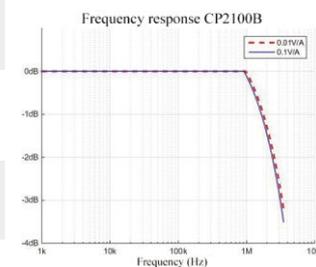
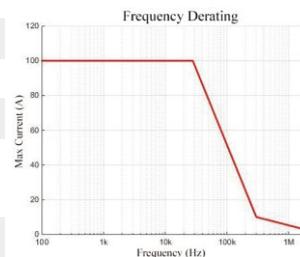


- Bandwidth up to 2MHz
- Two optional current measurement range: 10A/100A
- Reliable and exquisite design
- USB power supply, no need extra power adaptor
- Standard BNC interface for oscilloscopes or multimeter

Dimension: Control box 108\*56\*26mm

Probe head 11\*6.1\*2.5mm

Series	CP2100	
Model	CP2100A	CP2100B
Bandwidth	DC~800KHz	DC~2MHz
Rise time	≤437.5ns	≤140ns
Ranges	10A/100A	
Output sensitivity	0.1V/A (10A) 0.01V/A (100A)	
DC accuracy(typical)	3%±50mA (10A) 4%±50mA (100A, 500mA~40Apk) 15% (100A, 40Apk~100Apk)	
Signal delay	<150ns (10A) <200ns (100A)	
Current measurement range	50mA~10Apk (10A) 1A~100Apk (100A)	
Maximum measurable Current	100Apk, 70.7Arms (DC+ACpk) 200Apk-pk, 70.7Arms (AC)	
Maximum working voltage	CAT III 300V CAT II 600V	
Maximum float voltage	CAT III 300V CAT II 600V	
Maximum conductor Diameter	13mm	
Overload indication	buzzer beeps, button light flashes	
Power supply	DC 5V	



## Accessories

Model:MS\_A\_001  
Test leads



Model:MS\_A\_001\_4  
BNC to BNC cable



Model:T3100  
High Voltage passive probe



Model:P130A  
Passive probe



Model:MS\_A\_003  
Insulation test needle



Model:MS\_A\_004  
Pincer clips



Model:MS\_A\_005  
Multimeter probes



Model:MS\_A\_006  
Insulated alligator clips



Model:MS\_A\_007  
Non-destructive piercing needle



Model:MS\_A\_008  
Secondary ignition pickup



Model:MS\_A\_009  
Flexible piercing needle



Model:MS\_A\_010  
Multimeter pen



Model:MS\_A\_011  
Fine copper test alligator clips



Model:MS\_A\_012  
Quick piercing test hook needle



Model:MS\_A\_013  
HDMI cable



Model:Adaptor  
Delta power adaptor



Model:MS\_handbag  
Oscilloscope handbag



Model:MS\_belt  
Carry Strap



Model:MS\_mask  
Screen protector film



Model:ACP1000  
AC current probe



***Micsig***

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